

高级数据结构和算法分析

Advanced Data Structures and Algorithm Analysis

主讲教师： 丁尧相

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Course website:

<https://yaoxiangding.github.io/ADS-2024>

Courseware and homework sets can be downloaded
from <https://pintia.cn/>

基本信息:

Lecture Time:

Monday 6-8 (every week), 紫金港西1-408

Monday 9-10 (lab, every week), 紫金港机房

Teacher: 丁尧相 **Yao-Xiang Ding**

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Office hours: Wednesday 15:00-17:00

(Please make appointment on Ding Ding or E-Mail. For unexpected visits, I have to apologize for the possible absence.)

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课程评分方法 (Grading Policies)



**Homework
(10)**



**Discussions
(10)**



**Research Project
(30)**



**MidTerm
(10*)**




Total \leq 60 (up to 5 bonus within 60)



Final Exam (40*)



Homework Assignments (10)

-  Register and login at <https://pintia.cn/>
-  Bind your student ID with bind key
-  Enter

Bind Student ID

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Name

Student ID

Bind Key (obtained from your instructor)

Bind

Student ID bound

No Student

044575

chenyue

Home

中文

Logout



Research Projects (30)

- ◆ Done in groups of ≤ 3
- ◆ choose **2** out of 8 topics
- ◆ Report (15+15 points)
- ◆ Submit before the exam week
- ◆ Follow the style file



Discussions (10)

- Done in the same group to projects
- 4 times to submit course suggestions (in pdf), each scores 2.5, including:
 - Content want to learn
 - Hard parts for more explanations
 - Hard problems to solve
 - Suggestions on teaching
 - ...



Bonus scores(5)

- ◆ **One of the Tasks:**
 - ◆ **bonus problems within projects (group)**
 - ◆ **on-course project presentations (group)**
 - ◆ **on-course topic sharing (individual)**
 - ◆ **technical notes (individual)**
 - ◆ **+1 completion of projects (group)**
- ◆ **Grading: no-pass (0) , pass (3), good job (5)**
- ◆ **Doing multiple tasks will receive the maximum score for one of the tasks.**



Representation Schedule

| | A | B |
|----|------|----|
| 1 | 实验汇报 | 专题 |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | 1 | |
| 7 | 1 | |
| 8 | | 1 |
| 9 | | |
| 10 | 1 | |
| 11 | 1 | |
| 12 | 1 | |
| 13 | 1 | |
| 14 | | 1 |
| 15 | 1 | |
| 16 | 1 | |



Project Representation

- ◆ One week for one project in order
- ◆ Should also complete the project report
- ◆ In-class presentation (10~15 minutes)
- ◆ The speaker can be chosen freely in the group.
While the contributions of the members in the projects should be clarified.
- ◆ If there are many volunteers, at most 3 groups will be chosen to give presentations with first-come-first-serve.



Topic Sharing

- ◆ **Two times: 1 for data structure 2 for algorithm**
- ◆ **In-class presentation (10-15 minutes)**
- ◆ **Topic can be chosen freely while need to be pre-submitted and approved.**
- ◆ **If there are many volunteers, at most 3 topics will be chosen to give presentations with first-come-first-serve.**



Technical notes

- ◆ Similar to topic sharing but without representations.
- ◆ Need to be ≥ 5 page pdf report.
- ◆ Submit before week 16.
- ◆ Will be distributed to classmates.
- ◆ Maybe harder to get the good-job score unless indeed well done (:-P).